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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/002,521	11/01/2001	Timothy Samuel Girton	760-35 CIP	6660
7590 11/15/2006			EXAMINER	
Daniel A. Scola, Jr. HOFFMANN & BARON, LLP			PATTERSON, MARC A	
6900 Jericho Tumpike Syosset, NY 11791			ART UNIT	PAPER NUMBER
			1772	

DATE MAILED: 11/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<del></del>		Application No.	Applicant(s)	
<b>4.00</b>		10/002,521	GIRTON ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Marc A. Patterson	1772	
Period fo	The MAILING DATE of this communication apports.	pears on the cover sheet with the c	orrespondence address	
WHIC - Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period ire to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailin ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I.  lely filed  the mailing date of this communication.  O (35 U.S.C. § 133).	
Status				
1)⊠ 2a)□ 3)□	Responsive to communication(s) filed on 19 C.  This action is <b>FINAL</b> . 2b) This Since this application is in condition for alloward closed in accordance with the practice under the second sec	s action is non-final. nce except for formal matters, pro		
Disposit	ion of Claims			
5)□ 6)⊠ 7)□ 8)□ <b>Applicat</b> 9)□	Claim(s) 1-3,21,22,24,25 and 27 is/are pending 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed.  Claim(s) 1-3,21,22,24,25 and 27 is/are rejected Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or ion Papers  The specification is objected to by the Examine The drawing(s) filed on is/are: a) accompliance Applicant may not request that any objection to the	wn from consideration.  ed.  or election requirement.  er.  cepted or b) objected to by the B		
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •	· •	
	under 35 U.S.C. § 119	The state of the s		
12) [ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati crity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
2) 🔲 Notic 3) 🔲 Infor	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	

Art Unit: 1772

#### **DETAILED ACTION**

#### WITHDRAWN REJECTIONS

- 1. The 35 U.S.C. 103(a) rejection of Claim 26 as being unpatentable over Yen et al (U.S. Patent No. 4,906,377) in view of Verona et al (U.S. Patent No. 5,776,185) and Kidd et al (U.S. Patent No. 6,770,202 B1), of record on page 2 of the previous Action, is withdrawn.
- 2. The 35 U.S.C. 103(a) rejection of Claims 1 and 21 as being unpatentable over Cabasso et al (U.S. Patent No. 4,951,381) in view of Kidd et al (U.S. Patent No. 6,770,202 B1), of record on page 3 of the previous Action, is withdrawn.
- 3. The 35 U.S.C. 103(a) rejection of Claims 2 3, 22 and 24 25 as being unpatentable over Cabasso et al (U.S. Patent No. 4,954,381) in view of Kidd et al (U.S. Patent No. 6,770,202 B1) and further in view of Chuter (U.S. Patent No. 6,293,969), of record on page 5 of the previous Action, is withdrawn.

#### **NEW REJECTIONS**

### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claim 25 is rejected under 35 U.S.C. 102(b) as being anticipated by Landi (U.S. Patent No. 5,141,522).

With regard to Claims 3 and 25, Landi discloses a PTFE extrudate (column 1, lines 48 – 58) comprising a PTFE resin and a polymeric component which is extractable therefrom to create pores in the PTFE resin which upon implantation permit tissue ingrowth (column 1, lines 48 – 58); the polymeric component is solid (polymethylmethacrylate; column 1, line 19), and is particulate and distributed throughout because pores are created, as stated above; Landi does not disclose a node and fibril structure or an expanded PTFE, and therefore discloses a non – expanded PTFE having no node and fibril structure.

## Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Landi (U.S. Patent No. 5,141,522).

Landi discloses an extrudate having particles as discussed above; the extrudate is tubular (column 1, line 57) and is a medical device (vascular graft; column 1, lines 49 – 50). Landi fails to disclose a particle size of 5 to 100 microns. However, Landi discloses pores which permit tissue growth as discussed above. Therefore, one of ordinary skill in the art would have recognized the utility of varying the particle size to obtain the desired ingrowth. Therefore, the

ingrowth would be readily determined by through routine optimization of the particle size by one having ordinary skill in the art depending on the desired use of the end product as taught by Landi.

It therefore would be obvious for one of ordinary skill in the art to vary the particle size in order to obtain the ingrowth, since the ingrowth would be readily determined through routine optimization by one having ordinary skill in the art depending on the desired end result as shown by Landi.

8. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chau et al (U.S. Patent No. 4,874,568).

With regard to Claim 24, Chau et al disclose an extrudate comprising a resin and a polymeric component which is extractable therefrom to create pores in the resin (column 3, lines 5 – 11); the polymeric component is solid (film – forming; column 3, lines 58 – 60), and is particulate and distributed throughout because pores are created, as stated above; the resin is a fluorocarbon (column 3, line 63); Chau et al therefore disclose the use of PTFE, which is the simplest fluorocarbon polymer; Chau et al does not disclose a node and fibril structure or an expanded PTFE, and therefore discloses a non – expanded PTFE having no node and fibril structure; Chau et al do not disclose components other than the resin and polymeric component, and Chau et al therefore disclose an extrudate consisting essentially of the resin and polymeric component; the extrudate consists essentially of PTFE, as stated above, and therefore is implantable; Chau et al fail to disclose pores that permit tissue growth. However, Chau et al disclose the selection of leaching medium, and therefore pore size, depending on the desired use

of the end product (column 6, lines 36 - 40). Therefore, one of ordinary skill in the art would have recognized the utility of varying the pore size depending on the desired use of the end product.

9. Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Landi (U.S. Patent No. 5,141,522) in view of Nagasawa (U.S. Patent No. 5,723,526).

Landi discloses a device comprising PTFE and polymethylmethacrylate as discussed above. With regard to Claims 1 and 3, Landi fails to disclose an interpenetrating polymer network.

Nagasawa teaches PTFE (column 2, line 16) that is an interpenetrating polymer network (column 5, lines 9 - 12) for use in the making of a device (article; column 1, lines 13 - 20) for the purpose of obtaining a device that is superior in impact resistance (column 1, lines 13 - 20). One of ordinary skill in the art would therefore have recognized the advantage of providing for the PTFE of Nagasawa in Landi, which comprises a device, depending on the desired impact resistance of the end product.

It therefore would have been obvious for one of ordinary skill in the art at the time Applicant's invention was made to have provided for an interpenetrating polymer network in Landi in order to obtain a device that is superior in impact resistance as taught by Nagasawa.

10. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Landi (U.S. Patent No. 5,141,522) in view of Trescony et al (U.S. Patent No. 5,607,464).

Landi discloses a vascular graft comprising PTFE and a second polymer as discussed above. Landi fails to disclose a polymer comprising silicone.

Trescony et al teach a vascular graft (column 2, lines 50 - 53) comprising PTFE and silicone (column 5, lines 37 - 42) for the purpose of obtaining a vascular graft having kink resistance (column 4, lines 35 - 37). One of ordinary skill in the art would therefore have recognized the advantage of providing for the silicone of Trescony et al in Landi, which comprises PTFE, depending on the desired kink resistance of the end product.

It therefore would have been obvious for one of ordinary skill in the art at the time

Applicant's invention was made to have provided for a silicone in Landi in order to obtain a

vascular graft having kink resistance as taught by Trescony et al.

11. Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chau et al (U.S. Patent No. 4,874,568) in view of Trescony et al (U.S. Patent No. 5,607,464).

Chau et al discloses an extrudate comprising PTFE and a second polymer as discussed above. Chau et al fails to disclose a polymer comprising silicone.

Trescony et al teach an extrudate (column 5, line 4) comprising PTFE and silicone (column 5, lines 37 – 42) for the purpose of obtaining an extrudate having kink resistance (column 4, lines 35 – 37). One of ordinary skill in the art would therefore have recognized the advantage of providing for the silicone of Trescony et al in Chau et al, which comprises PTFE, depending on the desired kink resistance of the end product.

Art Unit: 1772

It therefore would have been obvious for one of ordinary skill in the art at the time

Applicant's invention was made to have provided for a silicone in Chau et al in order to obtain

an extrudate having kink resistance as taught by Trescony et al.

12. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Landi (U.S. Patent No. 5,141,522) in view of Nagasawa (U.S. Patent No. 5,723,526) and further in view of Chuter (U.S. Patent No. 6,293,969)

Landi and Nagasawa disclose a porous PTFE comprising extractable polymeric material as discussed above. With regard to Claim 2, Landi and Nagasawa fail to disclose a radially distensible stent positioned axially about the tubular extrudate.

Chuter teaches a porous PTFE (PTFE membrane material; column 2, lines 49–53) comprised in first and second stents (first and second stent graft components; column 2, lines 45–47) with one stent positioned about the other stent (the stent components are at different levels, one below the other; column 2, lines 28 – 29) for the purpose of obtaining a stent which is biologically inert (column 2, lines 49 – 53). One of ordinary skill in the art would therefore have recognized the advantage of providing for the stent of Chuter in Landi and Nagasawa, which comprises PTFE, depending on the desired inertness of the end product.

It therefore would have been obvious for one of ordinary skill in the art at the time Applicant's invention was made to have provided for a stent, therefore radially distensible, positioned axially about the tubular extrudate in Landi and Nagasawa in order to obtain a stent which is biologically inert as taught by Chuter.

Art Unit: 1772

#### ANSWERS TO APPLICANT'S ARGUMENTS

- 13. Applicant's arguments and amendments regarding the 35 U.S.C. 102(b) rejection of Claim 26 as being anticipated by Yen et al (U.S. Patent No. 4,906,377) as evidenced by Verona et al (U.S. Patent No 5,776,185), 35 U.S.C. 103(a) rejection of Claims 1 and 21 as being unpatentable over Cabasso et al (U.S. Patent No. 4,951,381) in view of Yen et al (U.S. Patent No. 4,906,377), 35 U.S.C. 103(a) of Claims 2 3, 22 and 24 25 as being unpatentable over Cabasso et al (U.S. Patent No. 4,951,381) in view of Yen et al (U.S. Patent No. 4,906,377) and further in view of Chuter (U.S. Patent No. 6,293,969), of record in the previous Action, have been considered and have been found to be persuasive. The rejections are therefore withdrawn. The new rejections above are directed to amended Claims 1 3, 21 22, 24 25 and 27.
- 14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc A Patterson whose telephone number is 571-272-1497. The examiner can normally be reached on Mon Fri 8:30 AM 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 571-272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1772

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marc A. Patterson, PhD. Primary Examiner
Art Unit 1772